

**Anion exchange resins for separation of boron isotopes.** (Mitsubishi Chemical Industries Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho (1985), 10 pp. CODEN: JKXXAF JP 60102948 A2 19850607 Showa. Patent written in Japanese. Application: JP 83-212248 19831111. CAN 104:118292 AN 1986:118292 CAPLUS

#### Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 60102948	A2	19850607	JP 1983-212248	19831111
JP 04060701	B4	19920928		

#### Priority Application

JP 1983-212248	19831111
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#### Abstract

Anion exchange resins for sepn. of B isotopes were prepd. by making the vol. change ratio  $[(V2-V1)/V1 \times 100]$  ( $V1$  = vol. of free amine-type resin in  $H_2O$ ,  $V2$  = vol. of HCl absorbing-type resin in  $H_2O$ ) to be 8-30 of aminopolyol anion exchange resins having  $NRCH_2[CH(OH)]_nCH_2OH$  [ $n = 1-6$ ;  $R = H$ ,  $C1$  to  $C5$  alkyl,  $CH_2[CH(OH)]_mCH_2OH$  ( $m = 0-6$ )] moiety. The B isotopes are sepd. by passing  $H_3BO_3$  soln. over a resin tower and eluting with acid solns. Thus, a cross-linking copolymer of PhCH:CH<sub>2</sub> 90, 55% C<sub>6</sub>H<sub>4</sub>(CH:CH<sub>2</sub>)<sub>2</sub> 8, and iso-C<sub>8</sub>H<sub>18</sub> 95 g was chloromethylated with chloromethyl ether, N-methyl-D-glucamine was introduced as the functional group, and the product was made into a free amine form to prep. a catalyst.

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Title: JP60102948A2: ANION EXCHANGE RESIN FOR CONCENTRATING BORON ISOTOPE

Derwent Title: Boron isotope concentration - using amino-poly:ol anion exchange resin treated with boric acid  
[\[Derwent Record\]](#)

Country: JP Japan  
Kind: A (See also: [JP04060701B4](#))  
Inventor: KOSUGE MASAO;  
FUKUDA JUNJI;  
ANDO KIYOTO;  
WATANABE JIYUNYA;  
ITOI TOSHIAKI;

Assignee: MITSUBISHI CHEM IND LTD  
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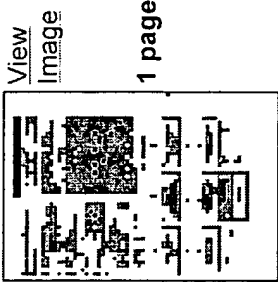
Application Number: JP1983000212248

IPC Code: IPC-7: [B01J 41/12](#); [B01D 59/30](#); [C08F 8/32](#); [C08F 12/08](#); [G21C 7/06](#);

Priority Number: 1983-11-11 JP1983000212248

Abstract: PURPOSE: To enable to efficiently concentrate a boron isotope, by using the titled anion exchange resin having a specified volume change ratio.

CONSTITUTION: In an anion exchange resin used in concentrating a boron isotope by passing boric acid through an ion exchange resin bed formed of an aminopolyol-type anion exchange resin to provide a boric acid adsorption zone followed by passing an acidic solution therethrough, the volume change ratio represented by formula I, wherein V1 is the volume of the resin in the free



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1 page

amine form in water, and V2 is the volume of the resin with hydrochloric acid adsorbed thereon in water, is set to be 8W30. The anion exchange resin is a resin which has an aminopolyol group of formula II, wherein n is an integer of 1W6, R is H, a 1W5C alkylo group or -CH2-(CHOH)m-CH2OH, wherein m is 0 or 1W6, as a functional group. The anion exchange resin can be used for efficiently concentrating the boron isotope.

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Legal Status:

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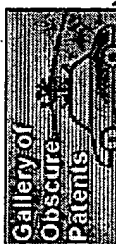


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